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(54) PRODUCTION OF ULTRAVIOLET LIGHT-ABSORBING SILICONE RESIN POWDER

(57) Abstract:

PURPOSE: To obtain the subject power, absorbing ultraviolet rays, transparent for visible light, having excellent fluidity and smooth touch feeling, useful as a cosmetic ingredient, by reaction of the surface of silicone resin powder with an amino group-contg. organosilicon compound and specific organic compound.

CONSTITUTION: The objective silicone resin powder is obtained by reaction of (A) silicone resin powder $0.1\text{-}30\mu\text{m}$ in average particle diameter having a silicon functional group on the surface with (B) a β -diketone compound of formula I {R1 is a (substituted) monovalent hydrocarbon, (substituted) monovalent heterocycle, substituted

carboxyl, OR4 or NR4R5 [R4 is a substituted) monovalent hydrocarbon; R5 is H or a substituted) monovalent hydrocarbon]; R2 and R3 are each same as R5} and (C) an amino groupcontg, organosilicon compound of formula II (R6 is same as R5; R7 is a 2-6C alkylene; R8 is a 3-6C alkylene or phenylene; R9 is same as R4; X is a hydrolyzable group; (a) is 0, 1 or 2; (b) is 1-3) and/or (D) a reaction product of the components B and C.

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$$R^{e}$$
 R^{g} $(3-b)$ Π $HN-(R^{7}-NH)_{a}R^{e}-Si-X_{b}$

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